



FCC 47 CFR PART 15 SUBPART C 15.247

TEST REPORT

FOR

ROBOT VACUUM CLEANER

Model :S3

Issued to

Shenzhen Lynkbey Intelligent Technology Co.,LTD
710 Fangda Building, No.011, No.12 South Road, Yuehai Street, Nanshan
District, Shenzhen City
Issued by
WH Technology Corp.



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1. GENERAL INFORMATION

**Applicant/
Manufacturer
Address** : Shenzhen Lynkbey Intelligent Technology Co.,LTD
: 710 Fangda Building, No.011, No.12 South Road, Yuehai Street,
Nanshan District, Shenzhen City

**Factory
Address** : Zhuhai Kaihao Electronics Co.,Ltd
: 2nd Floor, Building C, No.3 Pinggongyi Road, Zhuhai,
Guangdong, China.

EUT : Robot Vacuum Cleaner

Model Name : S3

Trade Name : N/A

**Model
Differences** :

Is here with confirmed to comply with the requirements set out in the FCC Rules and Regulations Part 15 Subpart C and the measurement procedures were according to ANSI C63.10-2013. The said equipment in the configuration described in this report shows the maximum emission levels emanating

FCC part 15 Subpart C

Receipt Date : 04/28/2020

Final Test Date :22/05/2020

Tested By:

Reviewed by:

May 05, 2020
(Date)

Bing Chang/ Engineer

July 1, 2020
(Date)



Bell Wei / Manager

Designation Number: TW2954



EUT Specification

EUT:	Robot Vacuum Cleaner
M/N:	S3
Frequency band: (Operating)	☒ WLAN:2.142G~2.462GHz ☐ WLAN:5.18G~5.32GHz/5.50GHz~5.70GHz ☐ WLAN:5.745G~5.825GHz ☐ Others(Bluetooth:2.402GHz~2.480GHz)
Device category:	☐ Portable (<20cm separation) ☒ Mobile (>20cm separation) ☐ Others _____
Antenna diversity:	☒ Single antenna ☐ Multiple antennas ☐ Tx diversity ☐ Rx diversity ☐ Tx/Rx diversity
Max. Output Power:	19.87dBm
Antenna Type:	PCB Antenna
Antenna gain:	0dBi
Evaluation applied:	☒ MPE Evaluation ☐ SAR Evaluation

**Limits for Maximum Permissible Exposure (MPE)**

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density(mW/cm ²)	Average Time
(A) Limits for Occupational/Control Exposures				
300-1500	--	--	F/300	6
1500-1	--	--	5	6
(B) Limits for General Population/Uncontrol Exposures				
300-1500	--	--	F/1500	6
1500-100000	--	--	1	30

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * R^2)$

Where

P_d = Power density in mW/cm²

P_{out} =output power to antenna in mW

G = gain of antenna in linear scale

π =3.1416

R = distance between observation point and center of the radiator in cm

P_d the limit of MPE, 1mW/cm². If we know the maximum gain of the antenna and total power input to the antenna, through the calculation, we will know the distance where the MPE limit is Reached.

Measurement Result

Channel	Channel Frequency (MHz)	Max Output power (dBm)	Antenna gain	Max Tune-UP power (mW)	Power density at 20cm (mW/cm ²)	Power density Limits (mW/cm ²)
Test Mode: 802.11g						
Middle	2437	19.87	0dBi	97.05	0.0193	1

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